

## EAST Search History

### EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	65	OBTAIN N\$4 MINIMUM DISTANCE BETWEEN HEAD SURFACE AND BRAIN WITH STRAIGHT LINE	US-PGPUB; USPAT	AND	OFF	2010/10/09 15:22
L2	1	convex hull with brain and head surface\$1 with straight line	US-PGPUB; USPAT	AND	OFF	2010/10/09 15:50
L3	14	convex hull and brain and head surface\$1 with straight line	US-PGPUB; USPAT	AND	OFF	2010/10/09 15:51
L4	459	brain and head surface \$1 with straight line	US-PGPUB; USPAT	AND	OFF	2010/10/09 15:51
L5	1	distance search with brain and head surface \$1 with straight line	US-PGPUB; USPAT	AND	OFF	2010/10/09 15:51
L6	130	distance search and brain and head surface \$1 with straight line	US-PGPUB; USPAT	AND	OFF	2010/10/09 15:51
L7	38	"600".clas. and distance search method and brain and head surface\$1 with straight line	US-PGPUB; USPAT	AND	OFF	2010/10/09 15:53
L8	35	("3490439"   "3508541"   "3735753"   "3998213"   "4033334"   "4085739"   "4308873"   "4323076"   "4537198"   "4709702").PN. OR ("5291888").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/09 16:09
L9	47	"6240309"	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/09 16:10
L10	48	"5803909"	US-PGPUB; USPAT; USOCR	OR	OFF	2010/10/09 16:14
S1	1	((IPPEITA) near2 (DAN)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/07/04 15:19

S2	4	transcranial brain and data processor and analyz\$4 condition\$1 and light measur\$4 near infrared	US-PGPUB; USPAT	AND	OFF	2009/07/05 12:17
S3	6	brain and data processor and analyz \$4 condition\$1 and light measur\$4 near infrared and irradiat\$4 brain with electromagnet\$3 wave \$1	US-PGPUB; USPAT	AND	OFF	2009/07/05 12:21
S4	6	analyz\$4 brain condition\$1 and light measur\$4 near infrared and irradiat\$4 brain with electromagnet\$3 wave \$1	US-PGPUB; USPAT	AND	OFF	2009/07/05 12:22
S5	0	analyz\$4 brain condition\$1 and light measur\$4 near infrared and irradiat\$4 brain with electromagnet\$3 wave \$1	US-PGPUB; USPAT	WITH	OFF	2009/07/05 12:23
S6	0	light measur\$4 near infrared and irradiat\$4 brain with electromagnet\$3 wave \$1	US-PGPUB; USPAT	WITH	OFF	2009/07/05 12:23
S7	6	light measur\$4 near infrared and irradiat\$4 brain with electromagnet\$3 wave \$1	US-PGPUB; USPAT	AND	OFF	2009/07/05 12:23
S8	66	irradiat\$4 brain with electromagnet\$3 wave \$1	US-PGPUB; USPAT	AND	OFF	2009/07/05 12:24
S9	1	((KUNI KO) near2 (SAKAMOTO)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/07/05 13:58
S10	1	((MASAKO) near2 (OKAMOTO)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/07/05 13:59
S11	6	((SEI ICHIRO) near2 (ISOBE)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/07/05 14:00

S12	1	((KAORU) near2 (KOHYAMA)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/07/05 14:00
S13	43	((KOJI) near2 (SHIMIZU)).INV.	US-PGPUB	OR	OFF	2009/07/05 14:00
S14	1	((KAZUBI RO) near2 (TAKEO)).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/07/05 14:01
S15	53	plurality light emitter\$1 with infrared and irradiat\$4 brain and plurality light detector \$1	US-PGPUB; USPAT	AND	OFF	2009/07/05 14:04
S16	0	plurality light emitter\$1 with infrared and irradiat\$4 brain and plurality light detector \$1 and MRI image\$1 and convex hull fit\$4	US-PGPUB; USPAT	AND	OFF	2009/07/05 14:06
S17	0	plurality light emitter\$1 and infrared and irradiat\$4 brain and plurality light detector \$1 and MRI image\$1 and convex hull fit\$4	US-PGPUB; USPAT	AND	OFF	2009/07/05 14:06
S18	1	light source\$1 LED and infrared and irradiat\$4 brain and detector\$1 and MRI image\$1 and convex hull fit\$4	US-PGPUB; USPAT	AND	OFF	2009/07/05 14:07
S19	1	light source\$1 LED and infrared and irradiat\$4 brain and detector\$1 and MRI image\$1 and hull fit\$4	US-PGPUB; USPAT	AND	OFF	2009/07/05 14:07
S20	131	multi channel LED and irradiat\$4 brain and multi channel detector \$1 and MRI image\$1	US-PGPUB; USPAT	AND	OFF	2009/07/05 14:09
S21	10	convex hull fit\$4	US-PGPUB; USPAT	ADJ	OFF	2009/07/05 14:28
S22	1	convex hull fit\$4 and distance search method	US-PGPUB; USPAT	ADJ	OFF	2009/07/05 14:32
S23	3	convex hull fit\$4 and distance search method and transcranial brain	US-PGPUB; USPAT	AND	OFF	2009/07/05 14:32

S24	0	600/476-479.ccls. and analyz\$4 brain condition\$1 and light measur\$4 near infrared and irradiat\$4 brain with electromagnet\$3 wave \$1	US-PGPUB; USPAT	AND	OFF	2009/07/05 23:04
S25	0	600/476-479.ccls. and analyz\$4 brain condition\$1 and light measur\$4 near infrared and irradiat\$4 brain with electromagnet\$3 wave \$1	US-PGPUB; USPAT	WITH	OFF	2009/07/05 23:04
S26	1799375	600/476-479.ccls. and analyz\$4 brain condition\$1 and light measur\$4 near infrared and irradiat\$4 brain with electromagnet\$3 wave \$1	US-PGPUB; USPAT	OR	OFF	2009/07/05 23:04
S27	2	600/476-479.ccls. and analyz\$4 brain condition\$1 and light measur\$4 near infrared	US-PGPUB; USPAT	AND	OFF	2009/07/05 23:05
S28	3	"20030050527"	US-PGPUB; USPAT	OR	OFF	2010/01/25 20:44
S29	0	project\$4 position\$3 marker\$1 head surface \$1 with position\$3 brain surface\$1 and transform\$4 head surfac\$4 coordinate\$1 to brain surface\$1 with minimum distance method\$1	US-PGPUB; USPAT	AND	OFF	2010/01/27 16:12
S30	0	transform\$4 head surfac\$4 coordinate\$1 to brain surface\$1 with minimum distance method\$1	US-PGPUB; USPAT	AND	OFF	2010/01/27 16:13
S31	0	transform\$4 head surfac\$1 coordinate\$1 to brain surface\$1 with minimum distance method\$1	US-PGPUB; USPAT; USOCR	AND	OFF	2010/01/27 16:13

S32	5	transform\$4 head surfac\$1 coordinate\$1 to brain surface\$1 and minimum distance method\$1	US-PGPUB; USPAT; USOCR	AND	OFF	2010/01/27 16:13
S33	5	transform\$4 head surfac\$1 coordinate\$1 to brain surface\$1 and distance search method \$1	US-PGPUB; USPAT; USOCR	AND	OFF	2010/01/27 16:14
S34	0	transform\$4 head surfac\$1 coordinate\$1 to brain surface\$1 and dotted line\$1 segment \$1	US-PGPUB; USPAT; USOCR	AND	OFF	2010/01/27 16:15
S35	0	head surfac\$1 coordinate\$1 to brain surface\$1 with distance \$1 search\$4	US-PGPUB; USPAT; USOCR	AND	OFF	2010/01/27 16:15
S36	0	transform\$4 head surface\$1 coordinate\$1 to brain surface\$1 with minimum distance method\$1	US-PGPUB; USPAT; USOCR	AND	OFF	2010/01/27 16:16
S37	0	transform\$4 head surface\$1 coordinate\$1 to brain surface\$1 with distance method\$1	US-PGPUB; USPAT; USOCR	AND	OFF	2010/01/27 16:16
S38	0	transform\$4 head surface\$1 coordinate\$1 to brain surface\$1 with distance search\$4 method\$1	US-PGPUB; USPAT; USOCR	AND	OFF	2010/01/27 16:16
S39	0	transform\$4 head surface\$1 coordinate\$1 to brain surface\$1 with distance search\$4	US-PGPUB; USPAT; USOCR	AND	OFF	2010/01/27 16:16
S40	0	head surface\$1 coordinate\$1 to brain surface\$1 with distance search\$4	US-PGPUB; USPAT; USOCR	AND	OFF	2010/01/27 16:16
S41	213	head surface\$1 coordinate\$1 with brain surface\$1 and distance search\$4	US-PGPUB; USPAT; USOCR	AND	OFF	2010/01/27 16:17

S42	1638	project\$4 position\$1 marker\$1 head surface \$1 three dimension\$4 image\$1 and brain surface\$1 and determin \$4 three dimension\$4 coordinate\$1 project\$4 point\$1	US-PGPUB; USPAT	AND	OFF	2010/01/30 11:16
S43	1	project\$4 position\$1 marker\$1 head surface \$1 three dimension\$4 image\$1 and brain surface\$1 and determin \$4 three dimension\$4 coordinate\$1 project\$4 point\$1	US-PGPUB; USPAT	WITH	OFF	2010/01/30 11:16
S44	0	image data and brain surface\$1 outline extract\$4 with convex hull fit\$4 and head surface\$1 and search minimum distance point \$1	US-PGPUB; USPAT	WITH	OFF	2010/01/30 11:23
S45	0	image data and brain surface\$1 outline extract\$4 with convex hull fit\$4 and head surface\$1 and search minimum distance point \$1	US-PGPUB; USPAT	AND	OFF	2010/01/30 11:23
S46	3	image data and brain surface\$1 outline extract\$4 and convex hull fit\$4 and head surface\$1 and search minimum distance point \$1	US-PGPUB; USPAT	AND	OFF	2010/01/30 11:24
S47	3	image\$1 data and brain surface\$1 outline extract\$4 and convex hull fit\$4 and head surface\$1 and search minimum distance point \$1	US-PGPUB; USPAT	AND	OFF	2010/01/30 11:24
S48	0	normaliz\$4 brain surface\$1 coordinate\$1 from subject\$1 to standard brain\$1	US-PGPUB; USPAT	WITH	OFF	2010/01/30 12:16

S49	0	normaliz\$4 brain surface\$1 coordinate\$1 from subject\$1 to standard brain\$1	US-PGPUB; USPAT	AND	OFF	2010/01/30 12:16
S50	178	normali\$4 brai\$1n surface\$1 coordinate\$1 with patient\$1 standard brain\$1	US-PGPUB; USPAT	AND	OFF	2010/01/30 12:17
S51	0	normali\$4 brai\$1 surface\$1 coordinate\$1 with patient\$1 standard brain\$1	US-PGPUB; USPAT	WITH	OFF	2010/01/30 12:17
S52	178	normali\$4 brai\$1 surface\$1 coordinate\$1 with patient\$1 standard brain\$1	US-PGPUB; USPAT	AND	OFF	2010/01/30 12:17
S53	3	"20030050527"	US-PGPUB; USPAT	AND	OFF	2010/01/30 13:05

10/ 9/ 2010 4:29:19 PM

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